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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
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George J Awad			ALVAREZ, RAQUEL	
Woodcock Washburn Kurtz Mackiewicz & Norris LLP			ART UNIT	PAPER NUMBER
One Liberty Place 46th Floor Philadelphia, PA 19103			3622	
			DATE MAILED: 07/06/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		A 11 41 N	A U				
Office Action Summary		Application No.	Applicant(s)	a.A			
		09/650,605	PERKINS ET AL.	<b></b>			
		Examiner	Art Unit				
		Raquel Alvarez	3622				
Period fo	The MAILING DATE of this communication ap or Reply	opears on the cover sheet v	vith the correspondence address	; <b></b>			
THE I - Externafter - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a re- period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statu- reply received by the Office later than three months after the maili- ed patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a ply within the statutory minimum of th d will apply and will expire SIX (6) MC te, cause the application to become	reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communic ABANDONED (35 U.S.C. § 133).	cation.			
Status							
1)⊠	Responsive to communication(s) filed on 19.	<u>April 2004</u> .					
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ Th	is action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1-10 and 20 is/are pending in the ap 4a) Of the above claim(s) is/are withdred claim(s) is/are allowed.  Claim(s) 1-10 and 20 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and	awn from consideration.					
Applicat	ion Papers						
	The specification is objected to by the Examin						
10)[	The drawing(s) filed on is/are: a) ad						
	Applicant may not request that any objection to the			404(4)			
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the						
Priority	under 35 U.S.C. § 119						
12) <u></u> a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure See the attached detailed Office action for a li	ents have been received. ents have been received in riority documents have bee eau (PCT Rule 17.2(a)).	Application No en received in this National Stag	ge			
Attachme	nt(s)						
1) Noti 2) Not 3) Info Pap	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 er No(s)/Mail Date	Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application (PTO-152) 	)			

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#### **DETAILED ACTION**

- 1. This office action is in response to communication filed on 4/19/2004.
- 2. Applicant elected group I, consisting of claims 1-5, 6-10 and 20.

#### Claim Objections

3. Claims 1 and 20 are objected to because of the following informalities: the use of the initials "SIC". Appropriate correction is required.

### Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

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Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

- 4. Claims 6-10 are non-statutory, the claims define instructions for execution on a computer i.e. a computer program per se. A computer program per se does not define any structural and functional interrelationships that permit the computer program's functionality to be realized. It is for these reasons that the above claims are deemed to be non-statutory.
- 5. Claims 1-4, 20 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

As an initial matter, the United States Constitution under Art. I, §8, cl. 8 gave Congress the power to "[p]romote the progress of science and useful arts, by securing for limited times to authors and inventors the exclusive right to their respective writings and discoveries". In carrying out this power, Congress authorized under 35 U.S.C.

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§101 a grant of a patent to "[w]hoever invents or discovers any new and useful process, machine, manufacture, or composition or matter, or any new and useful improvement thereof." Therefore, a fundamental premise is that a patent is a statutorily created vehicle for Congress to confer an exclusive right to the inventors for "inventions" that promote the progress of "science and the useful arts". The phrase "technological arts" has been created and used by the courts to offer another view of the term "useful arts". See *In re Musgrave*, 167 USPQ (BNA) 280 (CCPA 1970). Hence, the first test of whether an invention is eligible for a patent is to determine if the invention is within the "technological arts".

Further, despite the express language of §101, several judicially created exceptions have been established to exclude certain subject matter as being patentable subject matter covered by §101. These exceptions include "laws of nature", "natural phenomena", and "abstract ideas". See *Diamond v. Diehr*, 450, U.S. 175, 185, 209 USPQ (BNA) 1, 7 (1981). However, courts have found that even if an invention incorporates abstract ideas, such as mathematical algorithms, the invention may nevertheless be statutory subject matter if the invention as a whole produces a "useful, concrete and tangible result." See *State Street Bank & Trust Co. v. Signature Financial Group, Inc.* 149 F.3d 1368, 1973, 47 USPQ2d (BNA) 1596 (Fed. Cir. 1998).

This "two prong" test was evident when the Court of Customs and Patent Appeals (CCPA) decided an appeal from the Board of Patent Appeals and Interferences (BPAI). See *In re Toma*, 197 USPQ (BNA) 852 (CCPA 1978). In *Toma*, the court held that the recited mathematical algorithm did not render the claim as a whole non-

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statutory using the Freeman-Walter-Abele test as applied to *Gottschalk v. Benson*, 409 U.S. 63, 175 USPQ (BNA) 673 (1972). Additionally, the court decided separately on the issue of the "technological arts". The court developed a "technological arts" analysis:

The "technological" or "useful" arts inquiry must focus on whether the claimed subject matter...is statutory, not on whether the product of the claimed subject matter...is statutory, not on whether the prior art which the claimed subject matter purports to replace...is statutory, and not on whether the claimed subject matter is presently perceived to be an improvement over the prior art, e.g., whether it "enhances" the operation of a machine. *In re Toma* at 857.

In *Toma*, the claimed invention was a computer program for translating a source human language (e.g., Russian) into a target human language (e.g., English). The court found that the claimed computer implemented process was within the "technological art" because the claimed invention was an operation being performed by a computer within a computer.

The decision in *State Street Bank & Trust Co. v. Signature Financial Group, Inc.*never addressed this prong of the test. In *State Street Bank & Trust Co.*, the court found that the "mathematical exception" using the Freeman-Walter-Abele test has little, if any, application to determining the presence of statutory subject matter but rather, statutory subject matter should be based on whether the operation produces a "useful, concrete and tangible result". See *State Street Bank & Trust Co.* at 1374. Furthermore, the court found that there was no "business method exception" since the court decisions that purported to create such exceptions were based on novelty or lack of enablement issues and not on statutory grounds. Therefore, the court held that "[w]hether the patent's claims are too broad to be patentable is not to be judged under §101, but rather

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under §§102, 103 and 112." See *State Street Bank & Trust Co.* at 1377. Both of these analysis goes towards whether the claimed invention is non-statutory because of the presence of an abstract idea. Indeed, *State Street* abolished the Freeman-Walter-Abele test used in *Toma*. However, State Street never addressed the second part of the analysis, i.e., the "technological arts" test established in *Toma* because the invention in *State Street* (i.e., a computerized system for determining the year-end income, expense, and capital gain or loss for the portfolio) was already determined to be within the technological arts under the *Toma* test. This dichotomy has been recently acknowledged by the Board of Patent Appeals and Interferences (BPAI) in affirming a §101 rejection finding the claimed invention to be non-statutory. See *Ex parte Bowman*, 61 USPQ2d (BNA) 1669 (BdPatApp&Int 2001).

In the present application, independent claims 1 and 20 clearly recite a "useful, concrete and tangible result" ("storing said business listings according to said business categories"), however the claim recites no structural limitations (i.e., computer implementation), and so it fails the first prong of the test (technological arts).

From this it can be seen that the broadest reasonable equivalent disclosed fails to pass the first prong technological arts test and therefore recites non-statutory subject matter under 35 USC 101.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 1-10 and 20 rejected under 35 U.S.C. 102(e) as being anticipated by Leal (6,189,003 hereinafter Leal).

With respect to claims 1-2, 5, and 20 Leal teaches a method of registering business directory listing and advertisements (Abstract). Providing a directory of business listings and advertisements comprising a tree having editorial nodes having labels representative of business categories, said leaf level editorial nodes having SIC base business listings associated therewith, said business directory capable of storing business listings according to said business categories (i.e. classifying and storing business listings according to a main category, for example, Home and Garden with branching subcategories, for example, carpet cleaner)(col. 3, lines 3-20 and col. 8, lines 65- to col. 9, line 15); accepting at least one request to store a desired business listing (col. 4, lines 30-35); and storing said business listing according to said business categories (col. 4, lines 30-35 and col. 9, lines 2-15).

With respect to claims 3-4, Leal further teaches that said business listings and advertisements reside in a data store having a plurality of tables that define the display of said business directory listing (see Figure 8).

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With respect to claims 6-9, Leal teaches a system for the registration of business directory listing and advertisements (Abstract). A registration engine, said registration engine having a set of adaptable instructions to procure and format business directory listing data in accordance to a predefines set of business categories, said business categories indicative of a editorial nodes of a data business data taxonomy tree (i.e. classifying and storing business listings according to a main category, for example, Home and Garden with branching subcategories, for example, carpet cleaner)(col. 3, lines 3-20 and col. 8, lines 65- to col. 9, line 15); a business directory listing data store capable of storing said business directory listing data according to said business categories and cooperating with said registration engine to accept, maintain and retrieve business directory listing data for display (See Figure 8).

With respect to claim 10, Leal further teaches that the registration engine comprises a business directory listing server running registration computing application and connected to the Internet (See Figures 3-4).

### Point of contact

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raquel Alvarez whose telephone number is (703)305-0456. The examiner can normally be reached on 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eric w Stamber can be reached on (703)305-8469. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Raque Alvare

Examiner Art Unit 3622

R.A. 6/28/04